

S35VB005 THRU S35VB100

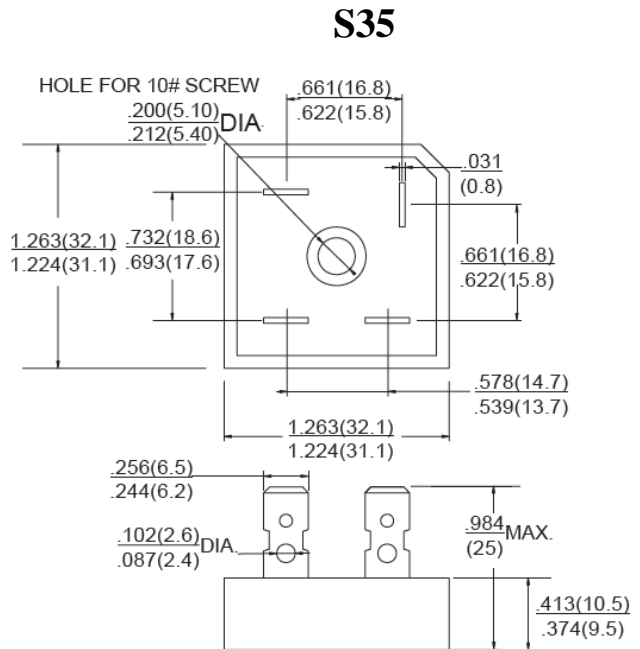
SINGLE-PHASE BRIDGE RECTIFIER GLASS PASSIVATED BRIDGE RECTIFIERS
 REVERSE VOLTAGE 50 to 1000 Volts FORWARD CURRENT 35 Ampere

FEATURES

- ◆ Rating to 1000V PRV
- ◆ High efficiency
- ◆ Glass passivated chip junction
- ◆ Electrically isolated metal case for maximum heat Dissipation
- ◆ The plastic material has UL flammability classification 94V-0
- ◆ Electrically isolated base-2500 Volts

Mechanical Data

- ◆ Case : Molded plastic with Heatsink internally mounted in the bridge encapsulation
- ◆ Polarity : As marked on Body
- ◆ Mounting : Hole for # 10 screw
- ◆ Weight : 0.70 ounces , 20 grams (terminal)



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25°C ambient temperature unless otherwise specified.

Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%

| PARAMETER | SYMBOL | S35VB 005 | S35VB 10 | S35VB 20 | S35VB 40 | S35VB 60 | S35VB 80 | S35VB 100 | UNIT |
|---|-----------------|--------------|-------------|-------------|-------------|-------------|-------------|--------------|--------------|
| Maximum Recurrent Peak Reverse Voltage | V_{RRM} | 50 | 100 | 200 | 400 | 600 | 800 | 1000 | v |
| Maximum RMS Voltage | V_{RRM} | 35 | 70 | 140 | 280 | 420 | 560 | 700 | v |
| Maximum DC Blocking Voltage | V_{DC} | 50 | 100 | 200 | 400 | 600 | 800 | 1000 | v |
| Maximum Average Forward Rectified Current @ $T_c=T_a$ | $I_{(AV)}$ | 35.0 | | | | | | | A |
| Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load | I_{FSM} | 400 | | | | | | | A |
| Maximum Forward Voltage at 17.5A DC | V_F | 1.05 | | | | | | | v |
| Maximum DC Reverse Current @ $T_j=25^\circ C$ at rated DC blocking voltage @ $T_j=125^\circ C$ | I_R | 5.0 500 | | | | | | | μA |
| I^2t Rating for Fusing ($t < 8.3ms$), (Note 1) | I^2t | 660 | | | | | | | A^2S |
| Typical Junction Capacitance per element (Note 2) | C_j | 150 | | | | | | | pF |
| Typical Thermal Resistance | $R_{\theta JC}$ | 1.4 | | | | | | | $^\circ C/W$ |
| Operating Temperature Range | T_j | -55 to +150 | | | | | | | $^\circ C$ |
| Storage Temperature Range | T_{STG} | -55 to +150 | | | | | | | $^\circ C$ |

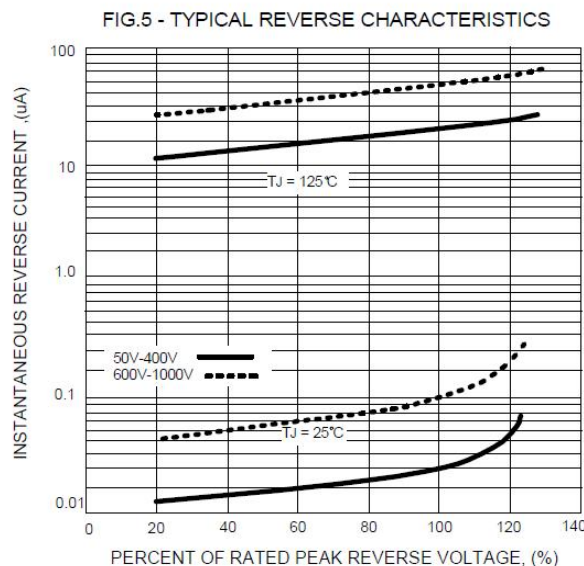
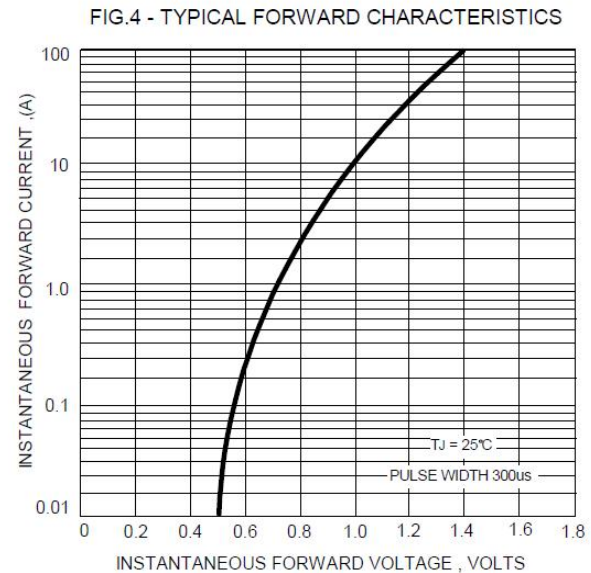
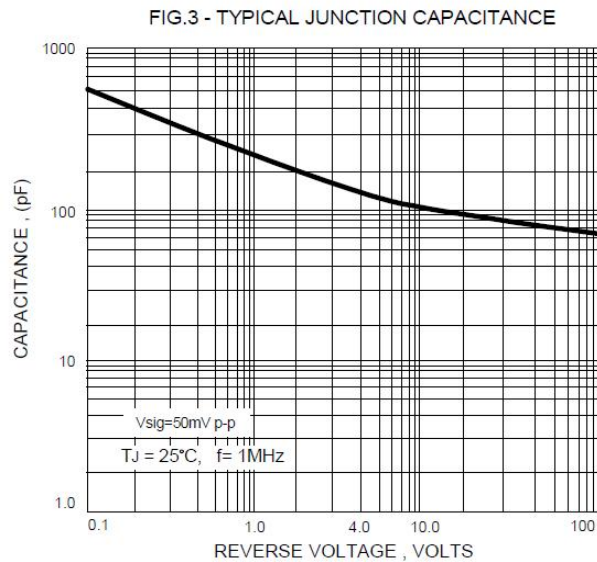
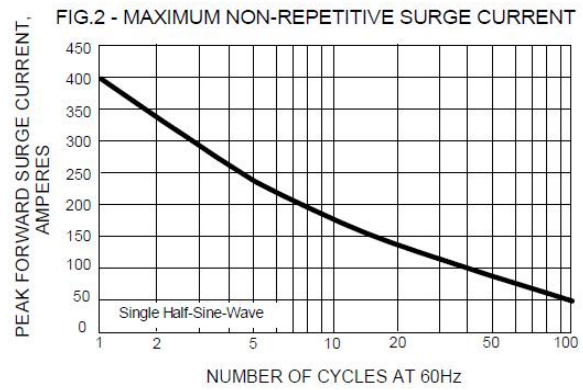
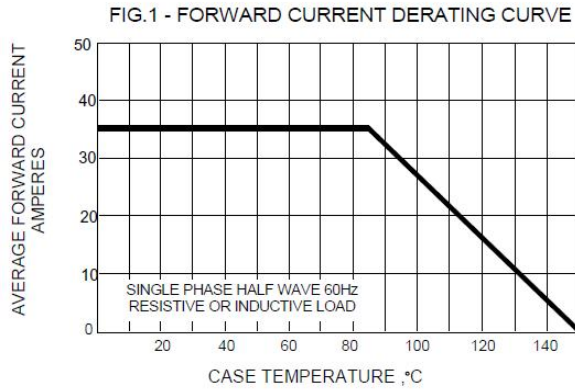
Note: 1. Measured at non-repetitive, for greater than 1ms and less than 8.3ms

2. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.

S35VB005 THRU S35VB100

SINGLE-PHASE BRIDGE RECTIFIER GLASS PASSIVATED BRIDGE RECTIFIERS
 REVERSE VOLTAGE 50 to 1000 Volts FORWARD CURRENT 35 Ampere

RATING AND CHARACTERISTIC CURVES S35VB005 THRU S35VB100



Note: Specifications are subject to change without notice. For more detail and update, please visit our website.